Geographic Transportation Reporting, Analysis and Query System
Georgia Department of Transportation

GeoTRAQS, www.dot.ga.gov/maps/geotraqs, allows for browsing, searching, downloading and connecting to geospatial data and web services managed by the Georgia Department of Transportation (GDOT). Workers in the field, GDOT managers, local governments, business partners and the general public can quickly and easily locate information about statewide transportation projects, traffic volumes and motor vehicle accidents through a feature-rich and easy-to-use online mapping application.

About the Situation

GDOT needed to replace its Transportation Explorer (TREX) system because it lacked the necessary levels of performance, scalability and usability. In addition, TREX could not use GeoPortal and other web services to display mapping data in layers. GDOT also found the Georgia GIS Data Clearinghouse unreliable for distribution of its GIS data since site maintenance and data publication are voluntary and enhancements are unfunded.

Innovative Solution

With GeoTRAQS, users can search for information about transportation construction permits, projects, bridges, traffic volumes and motor vehicle accidents in several ways. They can select a county or type in a specific place such as the Georgia World Congress Center. They can search by intersection, address, interstate exit, longitude and latitude, route and miles, GDOT districts, congressional districts, State House districts, State Senate districts, special tax districts, and transportation management or maintenance areas. Users can save preferences and bookmark locations for quick reference.

GDOT employees can quickly update transportation-related data, thereby ensuring information is more current, reliable and useful. GeoTRAQS brings disparate data sets together in a unified mapping experience to reveal information and patterns in ways other applications cannot. As a result, it identifies opportunities for managing state assets more effectively, alleviating traffic congestion and improving highway safety.

GeoTRAQS improves the efficiency of state operations by enabling GDOT employees to:
- Determine a transportation project's status, including funding, so state resources can be coordinated and scheduled more efficiently
- Improve collaboration by quickly and easily involving project managers from adjacent projects
- Visualize new project areas so rights-of-way and utilities can be identified and reviewed
- Access subsurface engineering plans
- Review crash and traffic data when evaluating safety projects
- Improve the availability of information to the public
- Incorporate data more easily into GDOT's business processes

As a critical tool for helping maintain Georgia's outstanding transportation infrastructure, GeoTRAQS plays a strategic role in supporting economic development and improved quality of life.